

This is the amino acid sequence of fibroblast growth factor-9 (FGF-9). It contains DNA molecules on the seventh exon encode for proteins polypeptides (see *Adv 57:11-20*) that show reduced FGF receptor binding activity but which retain the ability to bind heparin. For FGF-9, amino acid residues 146, 147 and 148 are preferably replaced by other amino acid residues, with an optional further replacement of the Glu 149 residue, the mutation may further be modified by replacement of the Tyr residues to reduce aggregation. The mutant is obtained by site specific or site-directed mutagenesis of FGF-9 cDNA. Insertion of the mutated FGF-9 into a vector and expression in host cells. The pET molecules are used to treat heparin-related

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Fibroblast growth factor (FGF) proteins (AAWS-4022-W53024 and AAWS-5023-W53025) are members of the "fibroblast" growth factor family and have homology to fibroblast growth factor homologous factor (FGF) protein. The FGF proteins (FGF-1-4) are involved in regulating the growth, survival, and differentiation of cells in the central nervous system, as well as cells in peripheral nervous tissues. The proteins can therefore be used for treating and diagnosing conditions involving the nervous system. FGF's can also be used in methods for maintaining cultured cells or tissues or to promote neuron growth in vitro.

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on optokinetic disorders and hepatic-associated thrombocytopoenia and thrombosis. They may also be used for drug design.

restenosis, in stent restenosis, certain ophthalmic disorders and dermatological disorders, such as psoriasis. Also provided are RGD mimetics that exhibit reduced receptor binding activity but retain the ability to bind to heparin. These mimetics have amino acid sequences corresponding to positions 88 (claim 5) and 94 (claim 7) at an optional position 96 of FGF-2. They can be used as antagonists for heparin associated bleeding, antagonists of heparin-induced anaphylaxis, and for treating heparin-induced thrombocytopenia and Thrombosis. In preferred embodiments, the RGD mimetic, the RGD peptide, is replaced by Ala, Phe, Gly, Ser, Met or Tyr, especially Ala, Gly or Ser, and particularly Ala. Cys residues may also be substituted to reduce poly-peptide aggregation.

S6 *Sixty-ninth AA*

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